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**Aq. hair-cosmetic compsn. - contg. quat. acrylic-based quat. polymeric ammonium salt, monomeric to oligomeric ammonium salt and surfactant**

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### Patent Family

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EP 80976	A	19830608				198324	B
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**Cited Patents:** 3. journal ref.; EP 45720 ; EP 47714 ; GB 1073947; GB 1342176; GB 2027045; JP 53024036; JP 54043211; JP 54135234

### Patent Details

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### Abstract:

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Aq. cosmetic compsns. having pH 3-8 contain at least (A) an aq. tenside system-soluble or micro-emulsifiable polymeric acrylic-based quat. ammonium salt having mol. wt. distribution  $10^4$  to  $10^9$ , provided the mol. wt. of at least 5 (5-60) wt.% of the polymeric salt is  $10^7$  to  $10^9$ , (B) a monomeric to oligomeric ammonium salt contg. 1-3 quat. N atoms and having mol. wt. max. 9000 and (C) a nonionic tenside, a tenside having intramolecular positive and negative charge and/or an anionic, opt. zwitter-ionic surfactant.

The salt (A) contains repeat structural units of formula

$-\text{CH}_2-\text{CA}_1(-\text{CO}-\text{D}_1-\text{E}_1-\text{NR}_1\text{R}_2-\text{QY}_1)-$  (I)

and opt. in opt. sequence at least 1 of the repeat structural units having formula  $-\text{CH}_2-\text{CA}_2(\text{CONH}_2)-$  (Ia),  $-\text{CH}_2-\text{CA}_3\text{G}_1-$  (Ib) and  $-\text{CH}_2-\text{CA}_4\text{G}_2-$  (Ic) (where  $\text{A}_1$ ,  $\text{A}_2$ ,  $\text{A}_3$  and  $\text{A}_4$  each is H or Me;  $\text{G}_1$  and  $\text{G}_2$  differ from another and each is -CN, -COOH or -CO-D<sub>2</sub>-E<sub>2</sub>-NR<sub>3</sub>R<sub>4</sub>;  $\text{D}_1$  and  $\text{D}_2$  each is -O- or -NH-;

E1 and E2 each is 1-4C alkylene opt. substd. by OH; R1, R2, R3 and R4 each is Me or Et; Q is alkyl, 1-4C hydroxyalkyl or benzyl and Y1 is a halide-, 1-4C alkyl-sulphate or alkyl-phosphonate anion). On using an anionic tenside as (C), (A) contains structural units having formula (Ia) in addn. to (I) and the anionic tenside is reacted, at least partly, with components (A) and (B) under ion exchange.

The compsns. are used in cosmetics, esp. hair-cosmetics. The compsns. combine good washing- and conditioning effects on hair, e.g. combing out when wet or dry, prevention of static electricity, gloss-retention, vol. and fullness and hand.

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